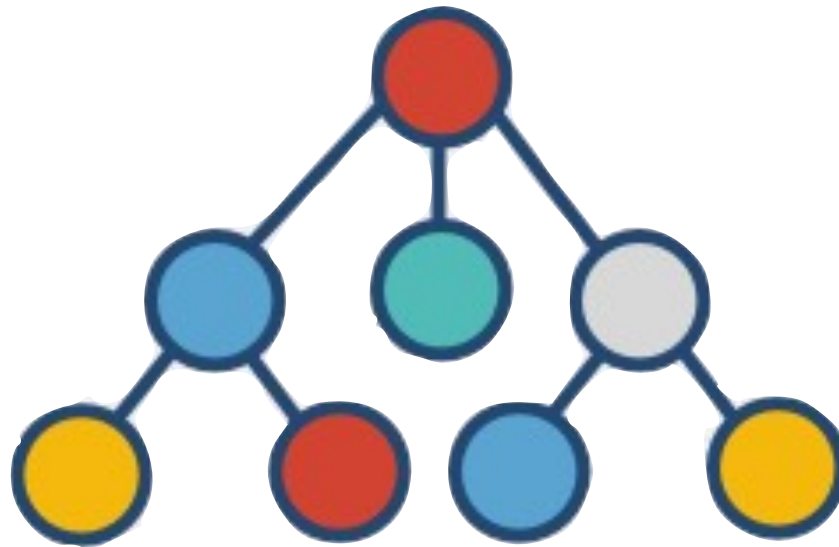


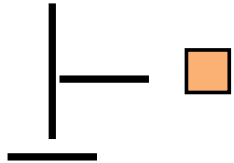
DATA STRUCTURE & ALGORITHMS



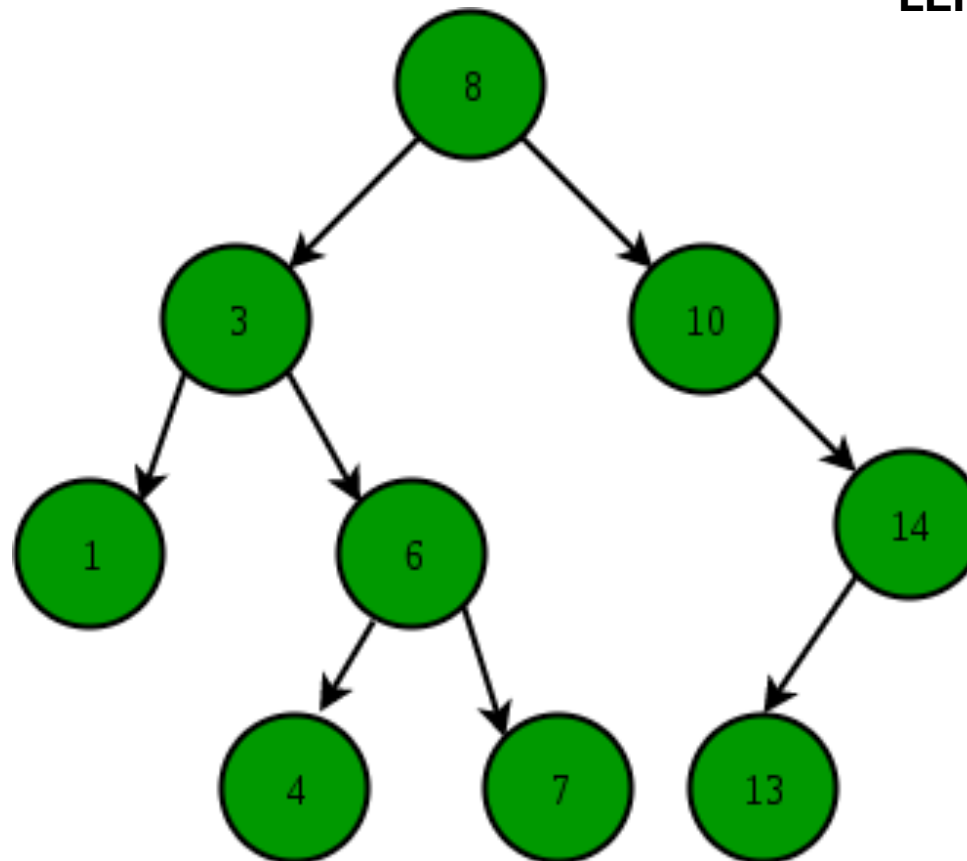
(By Prince Agarwal)
[“HELLO WORLD”]

BINARY SEARCH TREE (BST)

■ BINARY SEARCH TREE (BST)



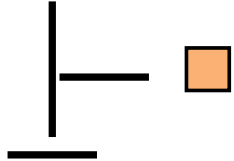
LEFT < ROOT < RIGHT



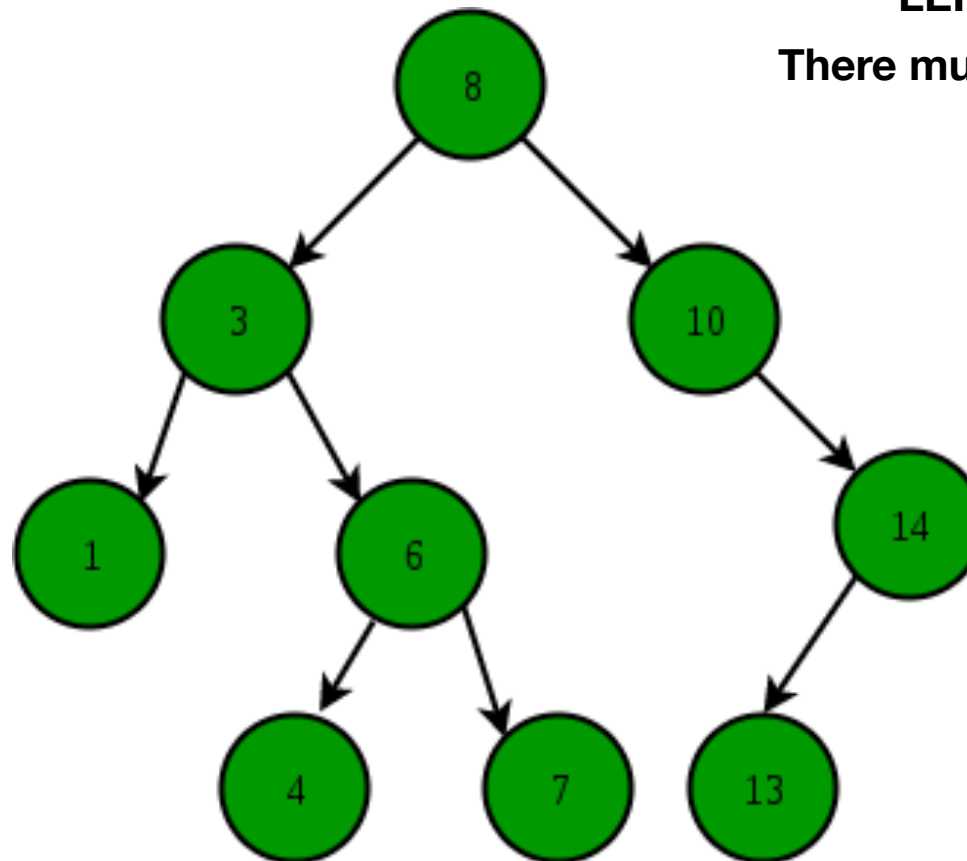
Hello world

BINARY SEARCH TREE (BST)

■ BINARY SEARCH TREE (BST)



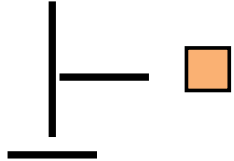
LEFT < ROOT < RIGHT
There must be no duplicate nodes



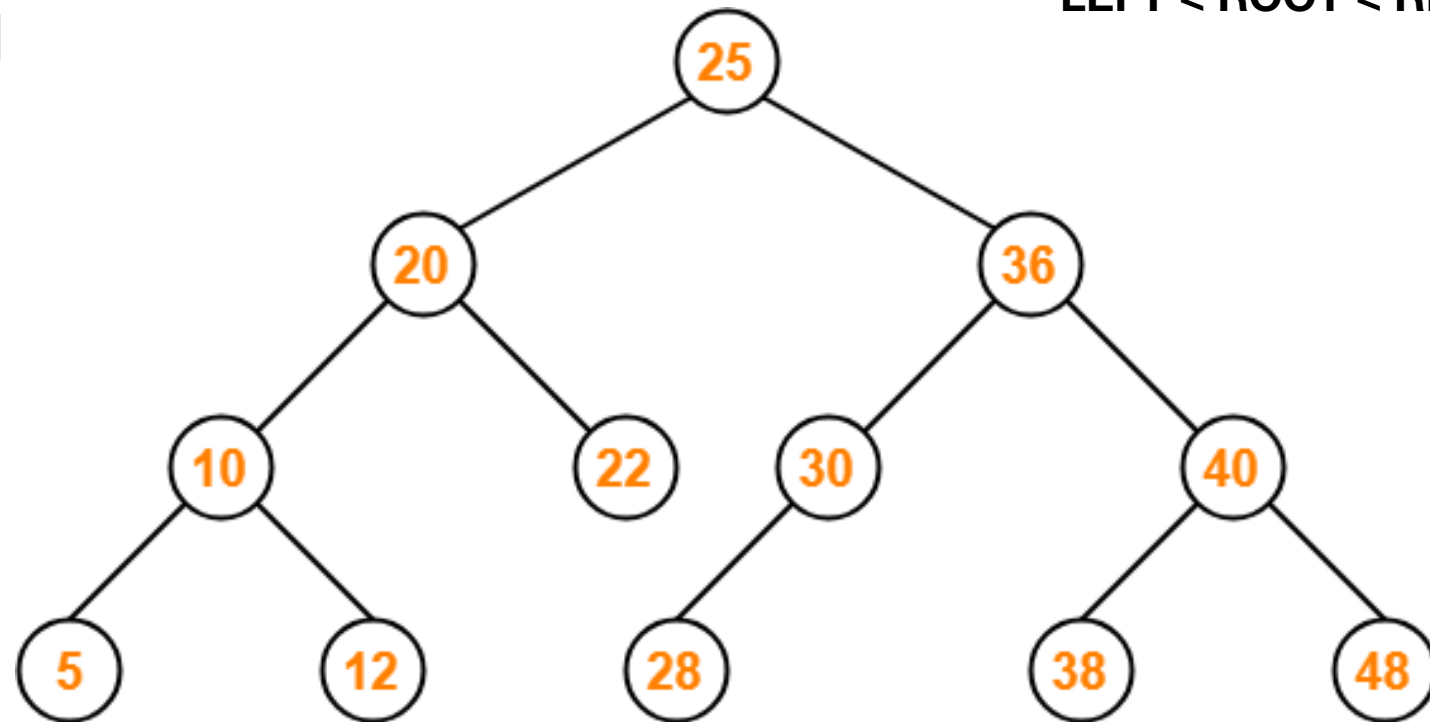
Hello world

BINARY SEARCH TREE (BST)

■ BINARY SEARCH TREE (BST)



LEFT < ROOT < RIGHT

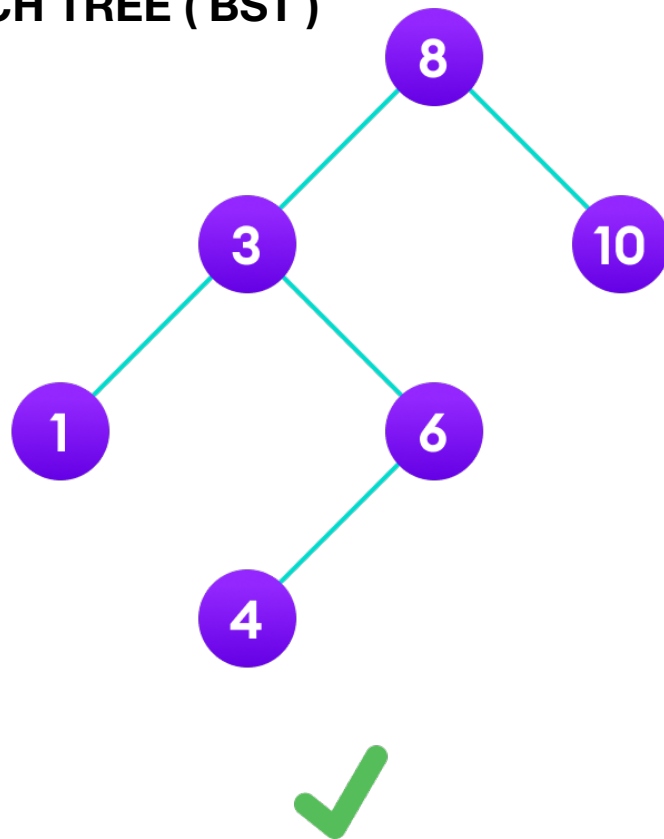
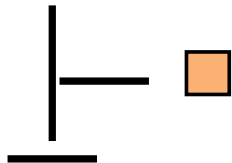


Binary Search Tree

Hello world

BINARY SEARCH TREE (BST)

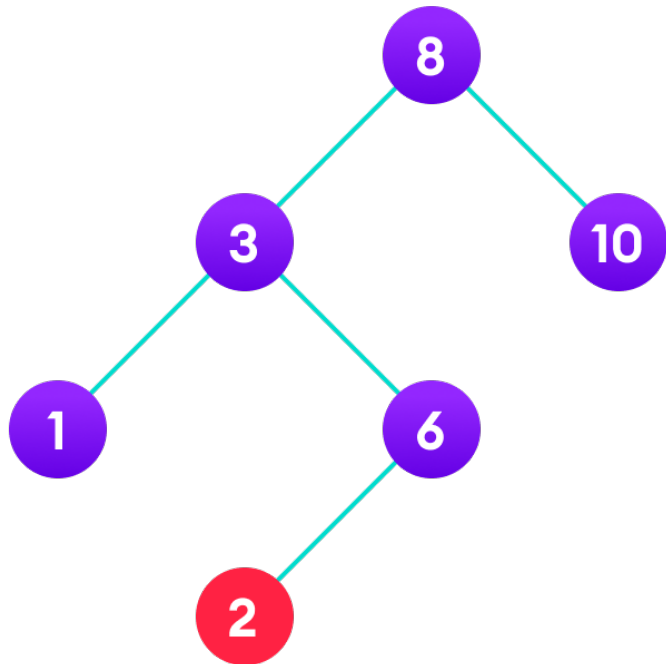
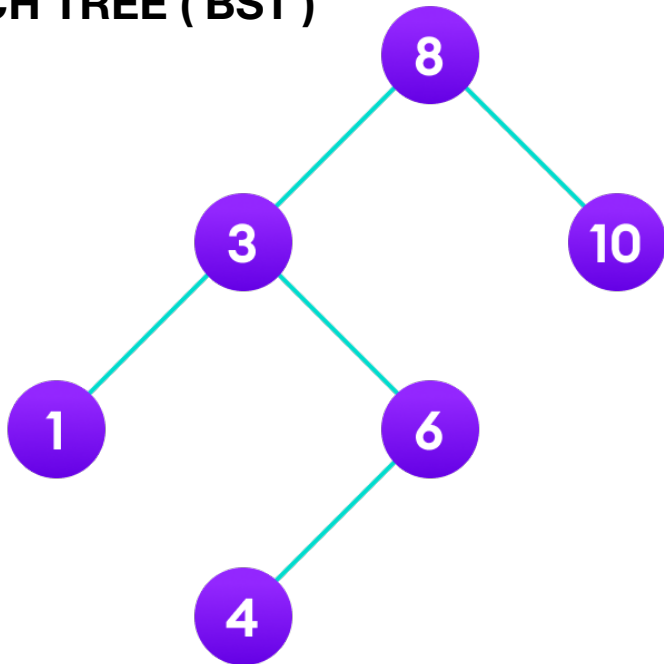
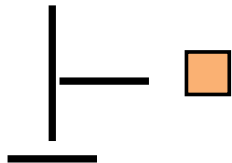
 **BINARY SEARCH TREE (BST)**



BINARY SEARCH TREE (BST)



BINARY SEARCH TREE (BST)



Hello world

BINARY SEARCH TREE (BST)

Binary Search

Search 23

0	1	2	3	4	5	6	7	8	9
2	5	8	12	16	23	38	56	72	91

23 > 16
take 2nd half

L=0 1 2 3 M=4 5 6 7 8 H=9

2	5	8	12	16	23	38	56	72	91
---	---	---	----	----	----	----	----	----	----

23 > 56
take 1st half

0 1 2 3 4 L=5 6 M=7 8 H=9

2	5	8	12	16	23	38	56	72	91
---	---	---	----	----	----	----	----	----	----

Found 23,
Return 5

0	1	2	3	4	L=5, M=5	H=6	7	8	9
2	5	8	12	16	23	38	56	72	91



Hello world